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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/857,214	06/22/2001	Hayao Tanaka	210131US0PCT	5190	
22850	7590 06/06/2005		EXAM	EXAMINER	
OBLON, SI 1940 DUKE	PIVAK, MCCLELLANI STREET	AUGHENBAUGH, WALTER			
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
	·		1772		

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
09/857,214	TANAKA, HAYAO		
Examiner	Art Unit		
Walter B. Aughenbaugh	1772		

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The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED 11 May 2005 FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.	
 The reply was filed after a final rejection, but prior to filing must timely file one of the following replies: (1) an amend condition for allowance; (2) a Notice of Appeal (with appe Examination (RCE) in compliance with 37 CFR 1.114. The 	ment, affidavit, or other evidence, v al fee) in compliance with 37 CFR o e reply must be filed within one of t	vhich places the appli 41.31; or (3) a Reque	cation in st for Continued
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A		in the final rejection, whi	chever is later. In
no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (TWO MONTHS OF THE FINAL REJECTION. See MPEP 70)	ater than SIX MONTHS from the mailing (b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection	on.
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origing than three months after the mailing da	of the fee. The approprinally set in the final Office	ate extension fee be action; or (2) as
 The reply was filed after the date of filing a Notice of Apperous was filed on A brief in compliance with 37 CFR 41 Appeal (37 CFR 41.37(a)), or any extension thereof (37 Chas been filed, any reply must be filed within the time period AMENDMENTS 	1.37 must be filed within two month FR 41.37(e)), to avoid dismissal of	s of the date of filing t	he Notice of
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief,	will not be entered be	ecause
(a) They raise new issues that would require further con	nsideration and/or search (see NO		
 (b) They raise the issue of new matter (see NOTE belowant to place the application in beta appeal; and/or 	• •	ducing or simplifying t	he issues for
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally rej	ected claims.	
4. The amendments are not in compliance with 37 CFR 1.12	21 See attached Notice of Non-Co	mnliant Amendment (PTOL-324)
5. Applicant's reply has overcome the following rejection(s):		impliant Americane (1 101-32-7.
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	lowable if submitted in a separate,		
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided the status of the claim(s) is (or will be) as follows: Claim(s) allowed: none. Claim(s) objected to: none. Claim(s) rejected: 6 and 12.		l be entered and an e	xplanation of
Claim(s) withdrawn from consideration: <u>none</u> .			
 AFFIDAVIT OR OTHER EVIDENCE The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 	d sufficient reasons why the affidav	it or other evidence is	necessary and
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. So	al and/or appellant fail ee 37 CFR 41.33(d)(1	s to provide a).
10. The affidavit or other evidence is entered. An explanation	n of the status of the claims after er	ntry is below or attach	ed.
REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but	t does NOT place the application ir	condition for allowan	ce because:
12. ☑ Note the attached Information Disclosure Statement(s). (13. ☐ Other:	PTO/SB/08 or PTO-1449) Paper N	o(s). <u>05112005</u>	



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ADVISORY ACTION

Acknowledgement of Applicant's Amendments

- 1. The amendment made in claim 12 in the After Final Amendment filed May 11, 2005 (Amdt. D) has been received, considered and entered by Examiner.
- 2. The cancellation of claim 7 in Amdt. D has been entered by Examiner.

WITHDRAWN REJECTIONS

Claim Rejections - 35 USC § 112

- 3. The 35 U.S.C. 112 rejection of claim 7 that was repeated in paragraph 2 of the previous Office Action mailed January 11, 2005 has been withdrawn due to the cancellation of claim 7 in Amdt. D.
- 4. The 35 U.S.C. 112 rejection of claim 7 made of record in paragraph 5 of the previous Office Action mailed January 11, 2005 has been withdrawn due to the cancellation of claim 7 in Amdt. D.
- 5. The 35 U.S.C. 112 rejection of claim 12 made of record in paragraph 5 of the previous Office Action mailed January 11, 2005 has been withdrawn due to Applicant's amendment in claim 12 in Amdt. D.

Claim Rejections - 35 USC § 103

6. The 35 U.S.C. 103 rejections of claim 7 that were repeated in paragraph 4 of the previous Office Action mailed January 11, 2005 have been withdrawn due to the cancellation of claim 7 in Amdt. D.

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REPEATED REJECTIONS

Claim Rejections - 35 USC § 112

7. The 35 U.S.C. 112 rejection of claim 12 that was repeated in paragraph 3 of the previous Office Action mailed January 11, 2005 has been repeated for the reasons previously made of record.

Claim Rejections - 35 USC § 103

8. The 35 U.S.C. 103 rejections of claims 6 and 12 that were repeated in paragraph 4 of the previous Office Action mailed January 11, 2005 have been repeated for the reasons previously made of record.

Response to Arguments

9. Applicant's arguments presented on pages 4-6 of Amdt. D have been fully considered but are not persuasive.

Applicant misrepresents the position of the Office in the last full sentence of page 4 of Amdt. D where Applicant states that "[i]t is the Examiner's position that the saturation adsorption amount is a function of the molecules placed into the container and not of the polymer used in the container". It has been the position of the Examiner throughout the prosecution of this application that saturation adsorption amount is dependent upon the identity and certain properties of the molecules placed into the container in solution and also upon the polymer of the container, not that the saturation adsorption amount is not a function of "the polymer used in the container". Examiner's statement that "[t]he saturation adsorption amount is not solely a function of the material that coats the container" on page 5 of the previous Office Action mailed January 11, 2005 is an indication that the Office recognizes that the saturation adsorption amount is

dependent upon the material that coats the container (i.e. "the polymer used in the container" in Applicant's terminology used in the last full sentence of page 4 of Amdt. D, also see language of claim 12: "coated with an ultra-hydrophilic polymer").

Applicant states on page 5 of Amdt. D that the "-in terms of concentration of the solution, temperature, and pH of the solvent-" statement made on pages 7 and 8 of the specification "is not intended to define the saturation adsorption amount as being solution dependent", but lines 22-26 of page 7 and lines 9-16 of page 8 of the specification read as if Applicant did intend the saturation adsorption amount to be "solution dependent". The statement "is always 1×10^{-1} pmol/cm² or less at the diluted concentration of serum" in lines 4-5 of page 8 of the specification further indicates that Applicant intended the saturation adsorption amount to be "solution dependent".

Furthermore, Examiner's position remains that the saturation adsorption amount of the container depends upon both the material that coats the container and the identity and certain properties of the molecules placed into the container in solution. See again paragraph 7 of the previous Office Action mailed January 11, 2005, which is provided below:

The saturation adsorption amount is not solely a function of the material that coats the container. Proteins that have differing degrees of hydrophilicity will have differing affinities for the material that coats the container. Applicant states that the word "saturation" in the phrase "saturation adsorption amount" makes the "saturation adsorption amount" a "fixed quantity relating to a maximum adsorption amount that a given coated surface can support irrespective of the conditions assayed", but the saturation adsorption amount varies with the type of molecule (moreover, the particular protein). A first protein with a higher affinity for a particular coating material than that of a second protein will show a higher adsorption amount upon saturation of the protein within a given surface area of the coating material than the second protein, all other conditions being equal.

Applicant's statement that "the saturation adsorption amount is determined by the combination of the properties of the molecules existing in the container and the base material" in lines 20-22 of page 5 of Amdt. D supports Examiner's position that the saturation adsorption amount of the

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container depends upon both the material that coats the container and the identity and certain properties of the molecules placed into the container in solution. Applicant's conditional statements in the first full paragraph of page 6 of Amdt. D (e.g. "if the surface of the container contains no hydrophobic moiety and carries no electric charge") are not persuasive because Applicant does not address proteins which have hydrophilic moieties, which would have an affinity to an "ultra-hydrophilic polymer" as claimed, and the discussion regarding electric charge is not related to Applicant's claimed subject matter (i.e. there is no indication of the charge of the "ultra-hydrophilic polymer" as claimed in the application).

In response to Applicant's arguments in the last full paragraph of page 6 of Amdt. D,

Claim 12 is indefinite because the metes and bounds of the claim cannot be ascertained since the
types of proteins (e.g. hydrophobic or hydrophilic, positively charged or negatively charged) that
fall within the scope of the claim cannot be ascertained.

10. Applicant's arguments regarding the 35 U.S.C. 103 rejections of claims 6 and 12 presented on pages 7-9 of Amdt. D have been fully considered but are not persuasive.

On page 7 of Amdt. D, Applicant argues that Applicant argues that Waki et al. "does not disclose or suggest that at least an inner surface of the container is coated beforehand", but this argument is irrelevant since each of the primary references teach that the inner surfaces of the containers taught by the respective primary references are hydrophillic, as made of record in paragraphs 8-10 of the Office Action mailed April 20, 2004. Applicant argues that the copolymer taught by Waki et al. is "soluble in water, not insoluble in water", but the claims do not require that the polymer be insoluble in water. Applicant argues that Waki et al. do not "disclose or suggest" the claimed maximum saturation adsorption amount, but it is not stated in paragraphs 8-

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10 of the previous Office Action mailed April 20, 2004 that Waki et al. do "disclose or suggest" the claimed maximum saturation adsorption amount. Applicant cites the data presented in Table 5 of Waki et al. in support of Applicant's argument that "there is no reasonable expectation based on the disclosure of Waki et al that the saturation adsorption amount as presently claimed can ever be attained", but the data presented in Table 5 is for three particular proteins (i.e. albumin, γ-globulin and fibrinogen, see column headings in Table 5) at two different blood concentrations (see col. 23, lines 11-15 and the subheadings of the Table which read "Concentration of Human Plasma Protein" and "Concentration of Human Plasma Protein (1/10)": the "1/10" at the end of the second heading indicates that the blood concentration is diluted to one tenth the concentration of the first blood samples tested). Absorption data for three particular proteins, each at two particular concentrations, does not represent absorption data for all proteins for all possible concentrations. Furthermore, the "absorption" property determined by Waki et al. is not the same property as the claimed saturation adsorption amount.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter B. Aughenbaugh whose telephone number is 571-272-1488. The examiner can normally be reached on Monday-Thursday from 9:00am to 6:00pm and on alternate Fridays from 9:00am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Walter B. Aughenbaugh

06/02/05

WILLIAM P. WATKINS III PRIMARY EXAMINER

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